

Translation of International Application as Filed

ABSTRACT OF THE INVENTION

The present invention proposes an austenitic nickel-chromium-molybdenum-silicon alloy with a clearly improved resistance to chlorine-containing gases and chlorides such as occur e.g. in plants of the chemical industry, thermal waste disposal, in exhaust systems of automobiles and in diesel engines, consisting of:

Cr	18 – 22 %
Mo	6 – 10 %
Si	0.6 – 1.7 %
C	0.002 – 0.05 %
Fe	1 – 5 %
Mn	0.05 – 0.5 %
Al	0.1 – 0.5 %
Ti	0.1 – 0.5 %
Mg	0,005 – 0.05 %
Ca	0.001 – 0.01 %
V	max. 0.5 %
P	max. 0.02 %
S	max. 0.01 %
B	0.001 – 0.01 %
Cu	max. 0.5 %
Co	max. 1 %

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Hf and/or Y and/or Zr and/or rare earth : 0.02 – 0.5%, the remainder
being nickel and impurities caused by the melting process.

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